Coal Industry News

COAL'S NATIONAL NEWSPAPER

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W.R. Grace: 'Coming on Strong in Coal'

HAROLD R. LOGAN
. . . heads Grace's Natural Resources Group

CINews Special Report

BEGINS ON PAGE 11

J. PETER GRACE
. . . job often takes 18 hours a day

East & West Vie for Coal Markets

Western States Winning Now But Future Unclear

By MIKE MYER

A battle with lower cost and environmental advantages on one side and better quality and established structure on the other is in progress between western and eastern coalfields.

Western states are winning the battle at present but may find it increasingly difficult to exploit their gains.

Coal has replaced gold and silver in creating boomtown areas in several western states, primarily because of the hefty cost advantages enjoyed by western producers.

Another advantage is that most western coal has a low sulfur content, making it attractive in the eyes of utilities and industries struggling to keep up with changing air pollution regulations.

But eastern coal has fought back to keep its markets, using the weapons of better quality coal and a structure of production and distribution far more established than that in western states.

Thousands of layoffs of miners and idling of dozens of mines indicate that, at least for now, western states have the bigger guns.

As in any conflict, however, the tides of battle are affected by many factors and could shift suddenly. Such shifts, primarily affected by federal policies, have been a major complaint of coal producers in recent years.

Here are some of the advantages and disadvantages faced by each side in the west-east contest:

• Cost has been a primary factor in expansion of western coalfields. Western producers have been able to hold down average costs per ton in part because much of their production is by surface mining instead of the far more costly underground method.

• Expansion to meet increased demand also has been easier in the west, again because of its surface mining advantage, in which new mines can be opened far more quickly than if deep mines had to be constructed.

• Though 15 western states contain only 51.9 percent of total United States coal reserves of about 438.3-billion tons, the westerners have a sizeable advantage in the amount of surface-minable reserves. Those 15 states include Alaska, Arizona, Colorado, Idaho, Kansas, Montana,

(Continued on Page 7)

Crucial to the coal industry's future is whether the nation's railroads can provide efficient service under an acceptable tariff. CINews' Robert E. Bedingfield posed the question to the presidents of 10 carriers and key federal officials. For his in-depth SPECIAL TRANSPORTATION REPORT, see CINews' next issue.

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INSIDE THIS ISSUE. . .

PORTLAND — 'EXCELLENT SITE FOR BULK TERMINAL,' CINews T.W. Kienlen reports from Northwest. (Page 2)

FISHER BODY (GM) SYSTEM shows promise in reducing particulate emissions from industrial boilers. (Page 24)

REPUBLICAN PARTY PLATFORM bodes well for coal industry, according to CINews' Stuart Magowan. (Page 5)

GOV. ROCKEFELLER CONTINUES FIGHT for Congressional approval of coal conversion bill. (Page 5)

WYOMING COAL [illegible]S in June at record for Kerr-McGee. (Page 2)

DOMESTIC

PRODUCTION	6/28/80	6/21/80	6/30/79
Bituminous, recent week	17,200	17,900	16,280
year to date	413,820	396,420	375,718
Anthracite, recent week	104	113	105
year to date	2,735	2,631	2,811
RR. carloadings, Bitu.			
recent week	117,333	120,402	108,015
yr. to date	2,842,671	2,725,338	2,320,933
RR carloadings, Anthra.			
recent week	556	666	509
yr. to date	14,423	13,867	13,560

Production data in thousands of flat tons.
Source: U.S. Dept. of Energy, Energy Information Administration - Weekly Coal Report.

By States (Bituminous and Lignite)			
Eastern	6/24/80	6/17/80	6/28/79
Alabama	548	545	476
Georgia	2	2	2
Illinois	1,331	1,329	1,279
Indiana	543	578	525
Kentucky:			
Eastern	2,285	2,249	2,230
Western	990	988	943
Total, Ky.	3,275	3,237	3,023
Maryland	79	68	48
Ohio	1,007	1,005	927
Pennsylvania	2,014	2,011	1,853
Tennessee	270	282	223
Virginia	1,019	1,007	1,034
West Virginia	2,219	2,215	2,188
Total, Eastern	12,305	12,277	11,577
Western			
Alaska	15	15	14
Arizona	222	222	270
Arkansas	14	15	13
Colorado	382	375	302
Iowa	12	12	11
Kansas	12	11	10
Missouri	114	136	111
Montana	886	886	796
New Mexico	292	307	257
North Dakota	280	290	278
Oklahoma	114	102	95
Texas	529	528	509
Utah	200	200	198
Washington	102	102	101
Wyoming	1,889	1,892	1,371
Total, Western	4,795	4,781	4,334
Total, United States	17,070	17,040	15,911

In short tons (000).
Source: U.S. Dept. of Energy, Energy Information Admin.: Weekly Coal Report.

Coal Labor	Apr.80	Mar.80	Apr.79
All employees			
Coal mining	256.9	257.5	258.7
Bitum & lignite	255.9	254.5	256.8
Production employees			
Coal mining	216.8	214.4	217.7
Bitum & lignite	213.3	211.7	215.1
Hours, weekly average			
Coal mining	39.9	40.4	40.8
Bitum & lignite	39.9	40.4	40.9
Earnings, hourly average			
Coal mining	$10.79	$10.45	$10.45
Bitum & lignite	10.82	10.47	10.48
Earnings, weekly average			
Coal mining	$430.52	$422.18	$426.36
Bitum & lignite	431.72	422.99	428.63

Source: U.S. Dept. of Labor, Bureau of Labor Statistics - Employment and Earnings.

TRANSPORTATION: RAILROAD			
Eastern district	6/21/80	6/14/80	6/28/79
Bessemer and Lake Erie	1,822	1,120	1,952
Baltimore and Ohio	7,190	7,887	8,842
Chesapeake and Ohio	16,361	17,489	13,900
Consolidated Rail Corp.	9,515	10,435	9,825
Norfolk and Western	19,221	19,515	17,249
Pittsburgh & Lake Erie	289	429	616
Western Maryland	2,242	2,217	1,614
Other, eastern district	56	148	21
Total, eastern district	58,696	59,040	52,019
Southern district			
Clinchfield Railroad	2,460	2,575	1,579
Illinois Central Gulf	4,384	4,231	4,233
Louisville Nashville	14,003	13,995	12,089
Southern Railway	8,003	7,231	6,973
Other, southern district	1	5	10
Total, southern dist.	28,851	28,037	24,864
Western district			
Atchison, Topeka & Santa Fe	1,373	1,579	1,402
Burlington Northern	19,000	19,328	15,628
Chicago & North Western	831	855	864
Denver & Rio Grande Wstrn	3,374	3,548	3,383
Kansas City Southern	109	105	71
Chicago, Milwaukee, St. Paul & Pac.	1,195	1,099	1,205
Missouri-Kansas-Texas	77	128	201
Missouri Pacific	4,139	4,017	4,313
Chicago, Rock Is. & Pacific	—	—	107
St. Louis-San Francisco	842	874	787
Soo Line	18	15	67
Union Pacific	3,903	4,203	3,788
Other, western district	23	53	9
Total, western district	34,894	35,899	31,625
Total, all districts	120,431	122,945	108,508

Inland Rivers	6/28/80	6/21/80	6/30/79
Monongahela River, Lock 3	329,844	331,816	290,474
Allegheny River, Lock 2	23,100	19,900	37,800
Other River, Mntgmry Lock	244,820	164,307	203,200

In short tons through locks
Source: U.S. Army, Corps of Engineers, Pittsburgh District

Data given in short tons (000).

Coal User Production	Recent	Previous	Yr. Ago
Major direct users:			
Electric Utilities (Mil. Kwh. June 28)	48,894	43,621	44,256
Steel (short tons-000, June 28)	1,892	1,767	2,804
Cement, Portland, U.S. shipments (short tons, Apr. 1980)	5,883,894	4,501,984	6,269,267
Other significant output:			
Aluminum (short tons, May 1980)	438,050	421,105	423,377
Motor vehicle production, total (week, June 28)	145,602	152,135	253,068
Machine tools:			
Net new orders ($000, May 1980)	433,400	411,900	476,250
Shipments ($000, May 1980)	373,750	343,050	322,600

Sources: Edison Electric Institute; American Iron & Steel Institute; U.S. Dept. of Interior, Bureau of Mines, Div. of Nonmetallic Minerals; Aluminum Association; Motor Vehicle Manufacturers Assoc.; National Machine Tool Builders Assoc.

PRICE INDEXES	5/80	4/80	5/79
Coal	464.8	463.3	450.8
Anthracite	451.8	451.8	467.8
Chestnut, Pa. mine	403.9	403.9	384.1
Buckwheat No. 1, Pa. mine	515.5	N.A.	485.3
Bituminous coal	464.3	462.8	451.2
Domestic sizes	580.7	580.7	573.9
Retail dealers	274.7	274.7	271.5
Industrial sizes, spot	394.7	393.8	392.4
Steam electric util.	120.9	121.2	115.4
Manufacturing	250.9	250.6	251.4
Metallurgical, high volatile	698.5	694.7	710.0
Metallurgical, low & medium volatile	703.0	698.5	706.0
Industrial sizes, contract	131.8	131.3	127.2
Steam, elec. util.	157.5	156.6	148.0
Manufacturing	120.0	120.0	117.7
Metallurgical, high volatile	99.4	99.4	104.4
Coke (Foundry by-product)	430.6	430.6	430.6
Birmingham, Ala.	439.6	439.6	434.0
Milwaukee, Wis.	420.4	420.4	420.4
Detroit, Mich.	423.1	423.1	N.A.
Indianapolis, Ind.	437.7	437.7	437.7
St. Louis, Missouri	286.8	286.8	286.8
Philadelphia, Penna.	285.8	285.8	285.8

Abbreviations

DOE — Dept. of Energy
EIA — Energy Information Admin.
AAR — Assn. of American Railroads
EEI — Edison Electric Institute
MVMA — Motor Vehicle Mfrs. Assn.
COE — Corps of Engineers
Bit. — Bituminous
Lig. — Lignite
Ant. — Anthracite

EXPORTS

	Physical Value			Dollar Value		Prices—Avg. Value per Short Ton			
	Apr. 1980	Mar. 1980	Apr. 1979	Apr. 1980	Mar. 1980	Apr. 1979	Apr. 1980	Mar. 1980	Apr. 1979
Bituminous coal, low volatile blends to make coke									
Japan	1,966,248	1,833,185	1,225,937	114,573,702	95,443,272	71,820,418	58.27	58.44	58.42
France	416,689	587,811	343,510	23,015,180	25,808,224	18,869,037	55.23	43.91	54.35
Italy	574,963	538,041	420,358	30,324,268	28,714,195	21,774,467	52.74	53.37	51.80
Netherlands	287,378	285,827	108,333	13,669,482	12,522,637	5,988,670	47.57	50.91	56.30
Spain	220,421	59,382	45,342	11,183,723	2,999,235	2,431,404	50.73	50.52	53.62
Belgium	186,035	275,105	264,432	7,723,748	15,824,259	12,139,791	48.52	57.52	45.91
Germany, F.R. (West)	199,026	—	40,540	10,296,323	—	2,039,199	51.73	—	50.30
Canada	844,482	301,784	880,147	48,398,385	17,444,172	50,501,387	57.31	57.80	57.38
Total, above	4,675,260	3,660,895	3,328,599	259,184,792	199,755,994	185,162,373	55.44	54.56	55.66
Total, other nations	861,804	859,588	728,045	43,068,140	42,401,519	37,896,167	49.97	49.33	52.04
Total, all nations	5,537,064	4,520,483	4,054,644	302,252,932	242,157,513	223,048,540	54.59	53.57	55.01
Bituminous coal, other									
France	250,301	326,657	—	8,246,049	10,821,854	—	32.94	32.52	—
Netherlands	144,997	128,611	—	5,910,244	4,751,779	—	40.76	36.95	—
Spain	127,794	50,921	—	5,082,271	2,509,599	—	39.77	49.28	—
Canada	1,083,266	20,687	1,166,427	44,044,089	883,481	45,489,975	41.42	42.71	39.00
Total, above	1,586,358	526,876	1,166,427	63,282,653	18,766,713	45,489,975	39.89	35.62	39.00
Total, other nations	290,843	517,662	5,133	12,303,647	20,881,797	323,684	42.30	40.34	52.77
Total, all nations	1,877,201	1,044,538	1,172,560	75,586,310	39,648,510	45,813,659	40.27	37.96	39.07
...2 Lignite									
Total, all nations	3,592	924	3,216	554,214	148,961	552,026	154.29	161.21	171.65
Coal coke for use as fuel									
Total, all nations	244,584	180,879	92,377	15,426,860	12,084,636	5,524,098	63.08	66.81	59.83
Petroleum coke, except calcined									
Total, all nations	420,304	807,221	799,811	15,719,933	23,368,294	23,296,502	37.40	38.48	29.13
Compositions used for fuel									
Total, all nations	25,559	8,359	2,671	793,184	281,859	382,993	31.03	44.32	135.89

	Physical Value			Dollar Value		Prices—Avg. Value per Short Ton			
	Apr. 1980	Mar. 1980	Apr. 1979	Apr. 1980	Mar. 1980	Apr. 1979	Apr. 1980	Mar. 1980	Apr. 1979
Anthracite									
Japan	12,115	—	—	867,741	—	—	71.63	—	—
Korea, Rep. (South)	28,154	—	—	835,222	—	—	29.67	—	—
France	34,316	23,019	—	1,581,479	1,550,869	—	46.00	67.37	—
Canada	63,820	6,171	38,318	4,010,206	389,523	2,382,843	63.03	63.12	62.19
Total, above	138,205	29,190	38,318	7,394,848	1,940,392	2,382,843	53.50	66.47	62.19
Total, other nations	6,442	38,107	2,484	1,003,829	2,104,133	246,506	155.83	55.22	99.24
Total, all nations	144,647	67,297	40,802	8,398,477	4,044,525	2,629,349	58.06	60.10	64.44
COAL IMPORTS									
Bituminous coal									
South Africa	59,973	61,015	67,730	1,284,775	1,306,339	1,450,094	21.42	21.41	21.41
Other nations	48	28,539	48	4,002	935,665	1,635	83.38	32.79	34.06
Total, all nations	60,021	89,554	67,778	1,288,777	2,242,004	1,451,729	21.47	25.04	21.42
Coke, suitable for fuel									
Japan	23,290	42,245	—	2,454,177	3,429,998	—	105.37	81.19	—
Germany, F.R. (West)	—	23	194,214	—	1,779	17,553,482	—	77.35	90.38
Argentine	22,637	—	—	27,207	224,879	—	475,140	9.93	—
Total, above	45,927	42,268	221,421	2,679,056	3,431,777	18,028,632	58.33	81.19	81.42
Total, other nations	10,361	7,853	70,802	808,311	808,288	5,838,431	78.01	77.46	82.46
Total, all nations	56,288	50,121	292,223	3,487,367	4,040,065	23,867,063	61.96	80.61	81.67
Compositions for fuel									
Canada (only importer)	3,767	1,459	2,523	151,337	60,426	73,888	40.17	41.42	26.17
Coal, other, and lignite									
Australia	—	—	58,692	—	—	1,841,385	—	—	32.48
Canada	3,224	3,480	2,903	125,747	135,116	78,203	39.00	38.83	26.94
Poland	—	—	33,747	—	—	978,661	—	—	29.00
Total, above	3,224	3,480	93,342	125,747	135,116	2,898,249	39.00	38.83	31.05
Total, other nations	—	—	—	—	—	—	—	—	—
Total, all nations	3,224	3,480	93,342	125,747	135,116	2,898,249	39.00	38.83	31.05

A CALENDAR OF EVENTS OF MEETINGS OF INTEREST TO THE COAL AND OTHER ENERGY-RELATED INDUSTRIES.

Aug. 18-21 — Century 2, Emerging Technology Conferences, San Francisco, Cal. Sponsored by American Society of Mechanical Engineers, 345 East 47th Street, New York, N.Y. 10017.

Aug. 26-28 — 11th Annual Institute on Coal Mining Health, Safety and Research at Virginia Tech. Information: Timothy Shaw, Virginia Tech, 143-A Holden Hall, Blacksburg, Va. 24061. Telephone: 703-961-5748.

Aug. 26-28 — International Mining Exhibition & Conference, Calgary, Alta., Can. For information: Gayle Kennedy, Manager; International Mining Exhibition & Conference, 503-205 9th Ave. S.E., Calgary, Alta., Canada T2G 0R3. Phone: 403-237-7755.

Sept. 21-24 — 1980 American Mining Conference — "Time to Mine Our Own Business," San Francisco, Cal. Information: American Mining Congress, 1100 Ring Building, Washington, D.C. 20036. Phone: 202-861-2800.

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SPECIAL TRANSPORTATION REPORT

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Coal Industry News

COAL'S NATIONAL NEWSPAPER

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The Nation's Railroads: Doing the Job in '80

A COAL TRAIN MOVES THROUGH THE MORNING MIST carrying part of the record tonnage being produced in 1980 by the nation's coal mines, both surface and underground. While new production marks are being achieved, the full impact of the hoped-for bonanza still is to be felt.

Even as veritable mountains of coal are being mined, coal must find a profitable market — and reach that market. Slurry pipelines may be a large part of the transportation answer in the future. Today, however, the backbone of the nation's coal transportaton lifeline is still the railroads.

How well are they really doing the job? What are their problems? What is the future outlook for the rail carriers?

To find the answers to these and other questions, the staff of Coal Industry News — headed by CINews' Robert E. Bedingfield — has prepared an in-depth SPECIAL TRANSPORTATION REPORT. It begins on Page Four of this issue.

IN THIS ISSUE

JOHN CORCORAN REFLECTS on the lessons we could learn from the cooperation between Japanese government and industry. (Page 19)

AUSTRALIA APPEARS to be on the verge of a boom in mining investments (Page 18)

AEP's APPALACHIAN POWER signs $41-million-a-year contract with Pittston for West Virginia coal. (Page 2)

CONOCO's BAILEY SETS TARGET of 4- to 5-million barrels of oil imports by 1990. (Page 17)

A CINews Exclusive

ICC Tariff Chief Calls For Coal Rate Structure Revamp

By ROBERT E. BEDINGFIELD

WASHINGTON

"Desperation rates" in the eastern states — designed to keep coal hoppers out of dead storage at almost any cost — created much of today's coal railroad freight rate structure.

"Missionary rates" in the Western states — to expand the market for the area's low-sulfur coal — completed the picture leading to present confused tariff schedules.

Thus today's conditions call for overhaul of the coal rate structure.

These are the conclusions of Richard B. Felder, deputy director of the Interstate

(Continued on Page 14)

ICC's RICHARD B. FELDER

BEST AVAILABLE COPY

DOMESTIC

Production	7/26/80	7/19/80	7/28/79
Bituminous, recent week	16,240	14,225	14,330
Bituminous, year to date	484,830	448,390	424,523
Anthracite, recent week	148	135	148
Anthracite, year to date	3,181	3,013	3,201
Railroad carloadings			
Bituminous, recent week	110,791	97,319	100,959
Bituminous, year to date	3,180,589	3,079,908	2,867,352
Anthracite, recent week	794	723	806
Anthracite, year to date	16,525	15,731	15,665

Production data in thousands of short tons.
Source: U.S. Dept. of Energy, Energy Information Administration-Weekly Coal reports.

Production by states, bituminous and lignite	8/21/80	8/14/80	8/23/79
Eastern			
Alabama	583	594	489
Georgia	2	2	2
Illinois	1,338	1,404	1,303
Indiana	549	583	538
Kentucky:			
Eastern	2,467	2,497	2,358
Western	961	990	896
Total, Ky.	3,428	3,487	3,254
Maryland	78	78	85
Ohio	1,010	1,082	945
Pennsylvania	2,086	2,112	1,971
Tennessee	274	276	281
Virginia	1,018	1,044	961
West Virginia	2,356	2,405	2,313
Total, eastern	12,702	13,021	12,102
Western			
Alaska	18	18	15
Arizona	238	234	293
Arkansas	13	13	15
Colorado	379	396	310
Iowa	12	15	15
Kansas	17	18	18
Missouri	121	123	114
Montana	792	807	675
New Mexico	313	324	212
North Dakota	362	378	342
Oklahoma	108	126	114
Texas	530	540	550
Utah	250	144	277
Washington	105	148	98
Wyoming	1,092	1,096	1,140
Total, western	4,948	4,979	4,188
Total, United States	17,650	18,000	16,290

In short tons (000).
Source: U.S. Dept. of Energy, Energy Information Admin.: Weekly Coal Report.

Coal Labor	5/80	4/80	5/79
All employees			
Coal mining	258.5	268.3	262.8
Bituminous & lignite	255.3	260.1	259.8
Production employees			
Coal mining	213.4	219.2	218.9
Bituminous & lignite	210.8	216.3	216.0
Hours, weekly average			
Coal mining	39.0	39.4	41.1
Bituminous & lignite	38.9	39.4	41.1
Earnings, hourly average			
Coal mining	10.89	11.00	10.38
Bituminous & lignite	10.92	11.03	10.41
Earnings, weekly average			
Coal mining	424.71	433.40	426.82
Bituminous & lignite	424.79	434.58	427.85

Source: U.S. Dept. of Labor, Bureau of Labor Statistics-Employment and Earnings.

TRANSPORTATION: RAILROAD	7/19/80	7/12/80	7/21/79
Eastern district			
Bessemer and Lake Erie	983	—	1,517
Baltimore and Ohio	5,310	42	5,265
Chesapeake and Ohio	9,868	58	9,806
Consolidated Rail Corp.	8,016	87	9,035
Norfork and Western	15,232	44	14,522
Pittsburgh & Lake Erie	54	—	133
Western Maryland	2,133	1	1,090
Other, eastern district	117	100	27
Total, eastern district	41,543	332	41,395
Southern district			
Clinchfield Railroad	2,123	3	1,415
Illinois Central Gulf	3,167	570	2,863
Louisville & Nashville	11,993	225	10,858
Southern Railway	7,078	513	5,860
Other, southern district	7	559	—
Total, southern district	24,338	1,870	21,033
Western district			
Atchison, Topeka & Santa Fe	646	195	783
Burlington Northern	19,455	1,439	18,966
Chicago & North Western	488	99	595
Denver & Rio Grande Western	3,077	9	2,334
Kansas City Southern	103	13	147
Chicago, Mil., St. Paul & Pacific	955	41	1,421
Missouri-Kansas-Texas	121	5	209
Missouri Pacific	3,319	351	4,097
Chicago, Rock Is. & Pacific	—	—	181
St. Louis-San Francisco	963	109	778
Soo Line	73	82	89
Union Pacific	2,205	514	2,443
Other, western district	—	2,268	10
Total, western district	31,435	5,140	30,045
Total, all districts	97,316	7,342	92,473

Transportation: inland rivers	7/26/80	7/19/80	7/28/79
Monongahela River, Lock 3	224,810	208,500	195,480
Allegheny River, Lock no. 2	14,460	14,900	35,000
Ohio River, Montgomery Lock	220,550	129,300	189,200

In short tons through locks.
Source: U.S. Army, Corps of Engineers, Pittsburgh District.

Consumption	4/80	3/80	4/79
Electric power utilities	40,622	40,601	38,913
Industrial:			
Coke plants	8,230	8,405	8,505
Other industrial	(a)	(a)	5,463

Note: (a) Data available on quarterly basis.
Data given in short tons.
Source: U.S. Dept. of Energy, Energy Information Administration Weekly Coal Report.

Coal Use			
Stocks of Coal	4/30/80	3/31/80	4/30/79
Electric Power Utilities	160,991	154,139	123,556
Industrial:			
Coke plants	9,534	9,263	8,317
Other industrial (a)	(a)	7,911	

Note (a): Data available on quarterly basis in short tons.
Source: U.S. Dept. of Energy, Energy Information Administration-Weekly Coal Report.

Coal Use: Production			
Major direct users:			
Electric utilities			
(Mil. Kwh. 7/26/80)	49,943	52,535	48,068
Steel (short tons-000, 7/26/80)	1,818	1,581	2,653
Cement, Portland, U.S. shipments (short tons, 5/80)	8,448,480	5,883,894	7,782,395
Other significant output:			
Aluminum (short tons, 6/80)	424,527	438,050	410,444
Motor vehicle production, total (week, 7/26/80)	121,181	104,876	154,042

Machine tools:			
Net new orders ($000, 6/80)	458,950	434,950	422,800
Shipments ($000, 6/80)	478,500	374,850	350,950

Sources: Edison Electric Institute; American Iron & Steel Institute; U.S. Dept. of Interior, Bureau of Mines, Div. of Nonmetallic Minerals; Aluminum Association; Motor Vehicle Manufacturers' Assoc.; National Machine Tool Builders Assoc.

PRICE INDEXES	5/80	4/80	5/79
Coal	464.6	463.3	450.8
Anthracite	451.8	451.8	407.8
Chestnut, Pa. mine	403.9	403.9	364.1
Buckwheat No. 1, Pa. mine	515.5	N.A.	465.3
Bituminous coal	484.3	482.8	451.2
Domestic sizes	580.7	580.7	573.9
Retail dealers	274.7	274.7	271.5
Industrial sizes, spot	394.7	393.6	392.4
Steam electric util.	120.9	121.2	115.4
Manufacturing	250.9	250.6	251.4
Metallurgical, high volatile	698.5	694.7	710.0
Metallurgical, low & medium volatile	703.0	698.5	706.0
Industrial sizes, contract	131.8	131.3	127.2
Steam, elec. util.	157.5	156.6	146.0
Manufacturing	120.0	120.0	117.7
Metallurgical, high volatile	99.4	99.4	104.4
Coke (Foundry by-product)	430.6	430.6	430.6
Birmingham, Ala.	439.6	439.6	434.0
Milwaukee, Wis.	420.4	420.4	420.4
Detroit, Mich.	423.1	423.1	N.A.
Indianapolis, Ind.	437.7	437.7	437.7
St. Louis, Missouri	286.8	286.8	285.8
Philadelphia, Penna.	285.8	285.8	285.8

Abbreviations
DOE — Dept. of Energy
EIA — Energy Information Admin.
AAR — Assn. of American Railroads
EEI — Edison Electric Institute
MVMA — Motor Vehicle Mfrs. Ass.
COE — Corps of Engineers
Bit. — Bituminous
Lig. — Lignite
Ant. — Anthracite

EXPORTS

	Physical Value			Dollar Value		Prices—Avg. Value per Short Ton			
	Apr. 1980	Mar. 1980	Apr. 1979	Apr. 1980	Mar. 1980	Apr. 1979	Apr. 1980	Mar. 1980	Apr. 1979
Bituminous coal, low volatile blends to make coke									
Japan	1,966,246	1,633,185	1,225,937	114,573,702	95,443,272	71,820,418	58.27	58.44	58.42
France	416,689	587,811	343,510	23,015,190	25,808,224	18,639,037	55.23	43.91	54.35
Italy	574,983	538,041	420,358	30,324,256	28,714,195	21,774,467	52.74	53.37	51.80
Netherlands	287,378	265,827	106,333	13,669,482	12,522,637	5,966,670	47.57	50.91	56.30
Spain	220,421	59,362	45,342	11,183,723	2,999,235	2,431,404	50.73	50.52	53.62
Belgium	166,035	275,105	264,432	7,723,749	15,824,259	12,139,791	46.52	57.52	45.91
Germany, F.R. (West)	199,026	—	40,540	10,296,323	—	2,039,199	51.73	—	50.30
Canada	844,482	301,784	880,147	48,398,365	17,444,172	50,501,387	57.31	57.80	57.38
Total, above	4,675,260	3,660,895	3,326,599	259,184,792	199,755,994	185,162,373	55.44	54.56	55.66
Total, other nations	861,804	859,588	728,045	43,068,140	42,401,519	37,886,167	49.97	49.33	52.04
Total, all nations	5,537,064	4,520,483	4,054,644	302,252,932	242,157,513	223,048,540	54.59	53.57	55.01
Bituminous coal, other									
France	250,301	326,657	—	8,248,049	10,821,854	—	32.94	32.52	—
Netherlands	144,997	128,611	—	5,910,244	4,751,779	—	40.76	36.95	—
Spain	127,794	50,921	—	5,082,271	2,509,599	—	39.77	49.28	—
Canada	1,063,268	20,687	1,166,427	44,044,099	883,481	45,489,975	41.42	42.71	39.00
Total, above	1,586,358	526,876	1,166,427	63,282,663	18,766,713	45,489,975	39.89	35.62	39.00
Total, other nations	290,843	517,662	6,133	12,303,647	20,881,797	323,694	42.30	40.34	52.77
Total, all nations	1,877,201	1,044,538	1,172,560	75,586,310	39,648,510	45,813,669	40.27	37.96	39.07
Lignite									
Total, all nations	3,582	924	3,216	554,214	148,961	552,026	154.29	161.21	171.65
Coal coke for use as fuel									
Total, all nations	244,584	180,879	92,377	15,428,860	12,084,636	5,524,098	63.08	66.81	59.83
Petroleum coke, except calcined									
Total, all nations	1,190,304	807,221	799,611	15,719,933	23,368,294	23,296,502	37.40	38.48	29.13
Compositions used for fuel									
Total, all nations	25,559	6,359	2,671	793,164	281,859	382,963	31.03	44.32	135.89

	Physical Value			Dollar Value		Prices—Avg. Value per Short Ton			
	Apr. 1980	Mar. 1980	Apr. 1979	Apr. 1980	Mar. 1980	Apr. 1979	Apr. 1980	Mar. 1980	Apr. 1979
Anthracite									
Japan	12,115	—	—	867,741	—	—	71.63	—	—
Korea, Rep. (South)	28,154	—	—	835,222	—	—	29.67	—	—
France	34,316	23,019	—	1,681,479	1,550,869	—	49.00	67.37	—
Canada	63,820	6,171	38,318	4,010,206	389,523	2,382,843	63.03	63.12	62.19
Total, above	138,205	29,190	38,318	7,394,648	1,940,392	2,382,843	53.50	66.47	62.19
Total, other nations	6,442	38,107	2,484	1,003,829	2,104,133	246,506	155.83	55.22	99.24
Total, all nations	144,647	67,297	40,802	8,398,477	4,044,525	2,629,349	58.06	60.10	64.44
COAL IMPORTS									
Bituminous coal									
South Africa	59,973	61,015	67,730	1,284,775	1,306,339	1,450,094	21.42	21.41	21.41
Other nations	48	28,539	48	4,002	935,665	1,635	83.33	32.79	34.06
Total, all nations	60,021	89,554	67,778	1,288,777	2,242,004	1,451,729	21.47	25.04	21.42
Coke, suitable for fuel									
Japan	23,290	42,245	—	2,454,177	3,429,998	—	105.37	81.19	—
Germany, F.R. (West)	—	23	194,214	—	1,779	17,553,492	—	77.35	90.38
Argentina	22,637	—	27,207	224,879	—	475,140	9.93	—	17.46
Total, above	45,927	42,268	221,421	2,679,056	3,431,777	18,028,632	58.33	81.19	81.42
Total, other nations	10,361	7,853	70,802	808,311	808,288	5,838,431	78.01	77.46	82.46
Total, all nations	56,288	50,121	292,223	3,487,367	4,040,065	23,867,063	61.96	80.61	81.67
Compositions for fuel									
Canada (only importer)	3,767	1,450	2,823	151,337	60,426	73,868	40.17	41.42	26.17
Coal, other, and lignite									
Australia	—	—	56,682	—	—	1,841,385	—	—	32.48
Canada	3,224	3,480	2,903	125,747	135,118	78,203	39.00	38.83	26.94
Poland	—	—	33,747	—	—	978,661	—	—	29.00
Total, above	3,224	3,480	93,342	125,747	135,118	2,898,249	39.00	38.83	31.05
Total, other nations	—	—	—	—	—	—	—	—	—
Total, all nations	3,224	3,480	93,342	125,747	135,118	2,898,249	39.00	38.83	31.05

A CALENDAR OF EVENTS OF MEETINGS OF INTEREST TO THE COAL AND OTHER ENERGY-RELATED INDUSTRIES.

Aug. 18-21 — Century 2, Emerging Technology Conferences, San Francisco, Cal. Sponsored by American Society of Mechanical Engineers, 345 East 47th Street, New York, N.Y. 10017.

Aug. 26-28 — 11th Annual Institute on Coal Mining Health, Safety and Research at Virginia Tech. Information: Timothy Shaw, Virginia Tech, 143-A Holden Hall, Blacksburg, Va. 24061. Telephone: 703-961-5748.

Aug. 26-28 — International Mining Exhibition & Conference, Calgary, Alta., Can. For information: Gayle Kennedy, Manager, International Mining Exhibition & Conference, 503-205 9th Ave. S.E., Calgary, Alta., Canada T2G 0R3. Phone: 403-237-7755.

Sept. 21-24 — 1980 American Mining Conference — "Time to Mine Our Own Business," San Francisco, Cal. Information: American Mining Congress, 1100 Ring Building, Washington, D.C. 20036. Phone: 202-861-2800.

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